

FIG. 1

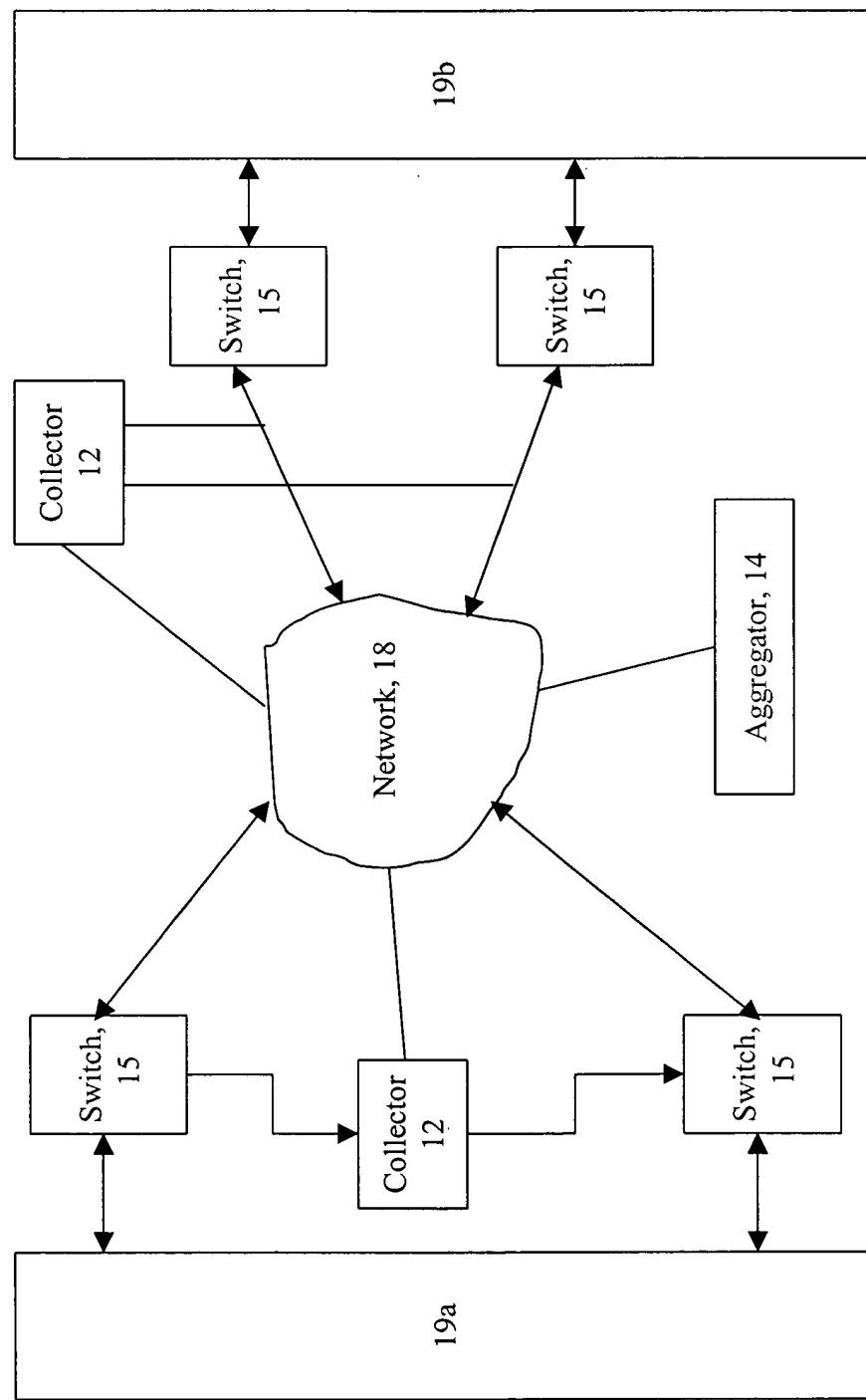


FIG. 2

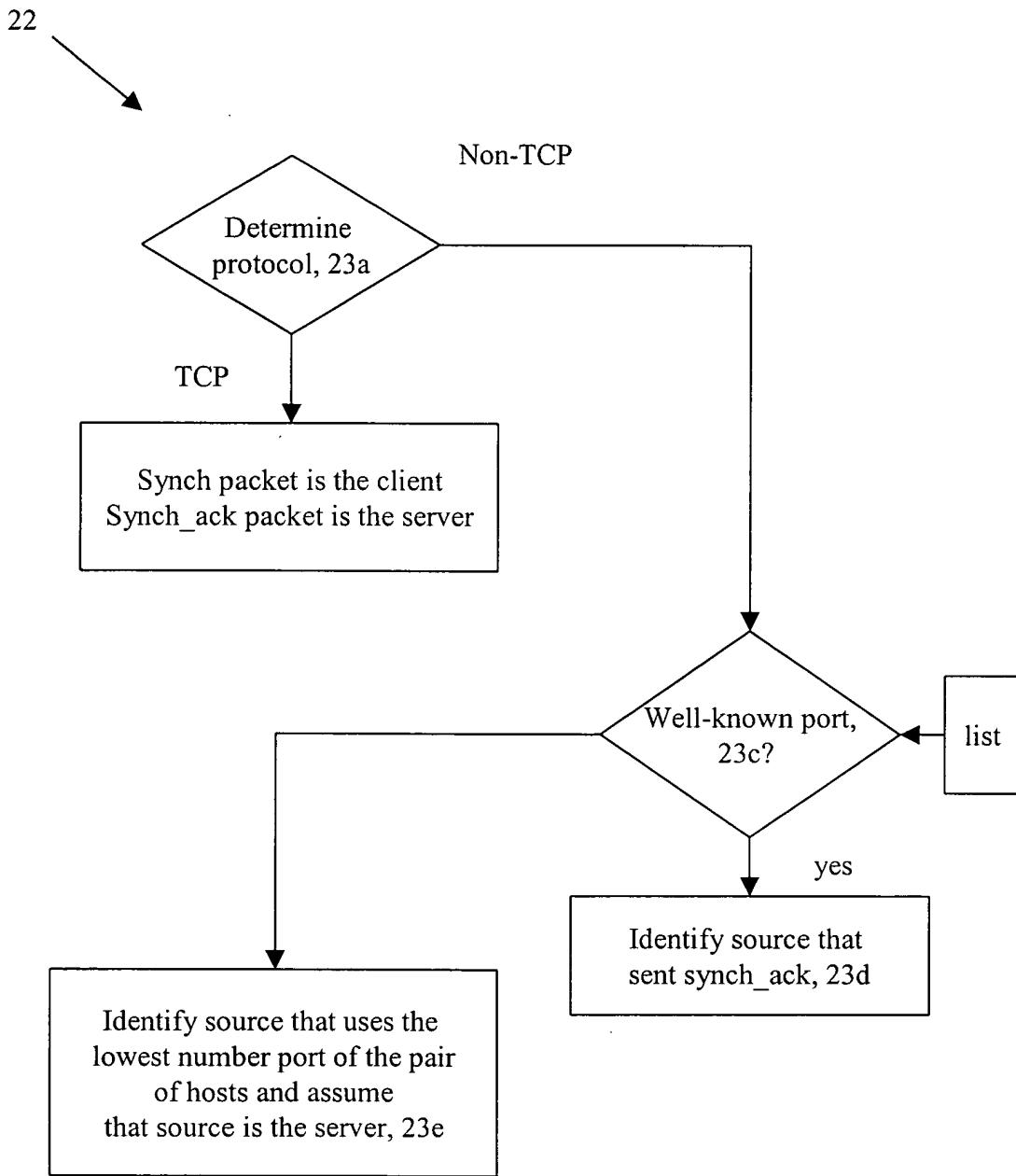


FIG. 2A

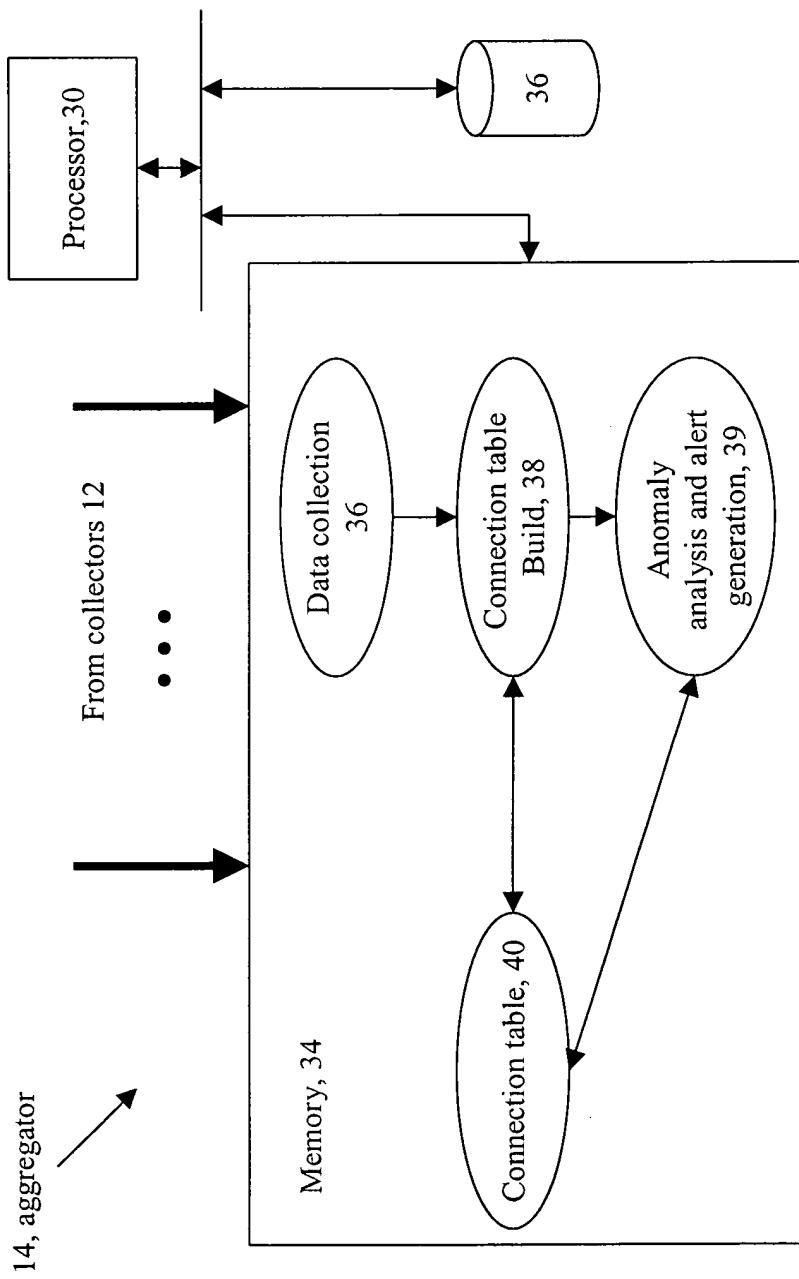
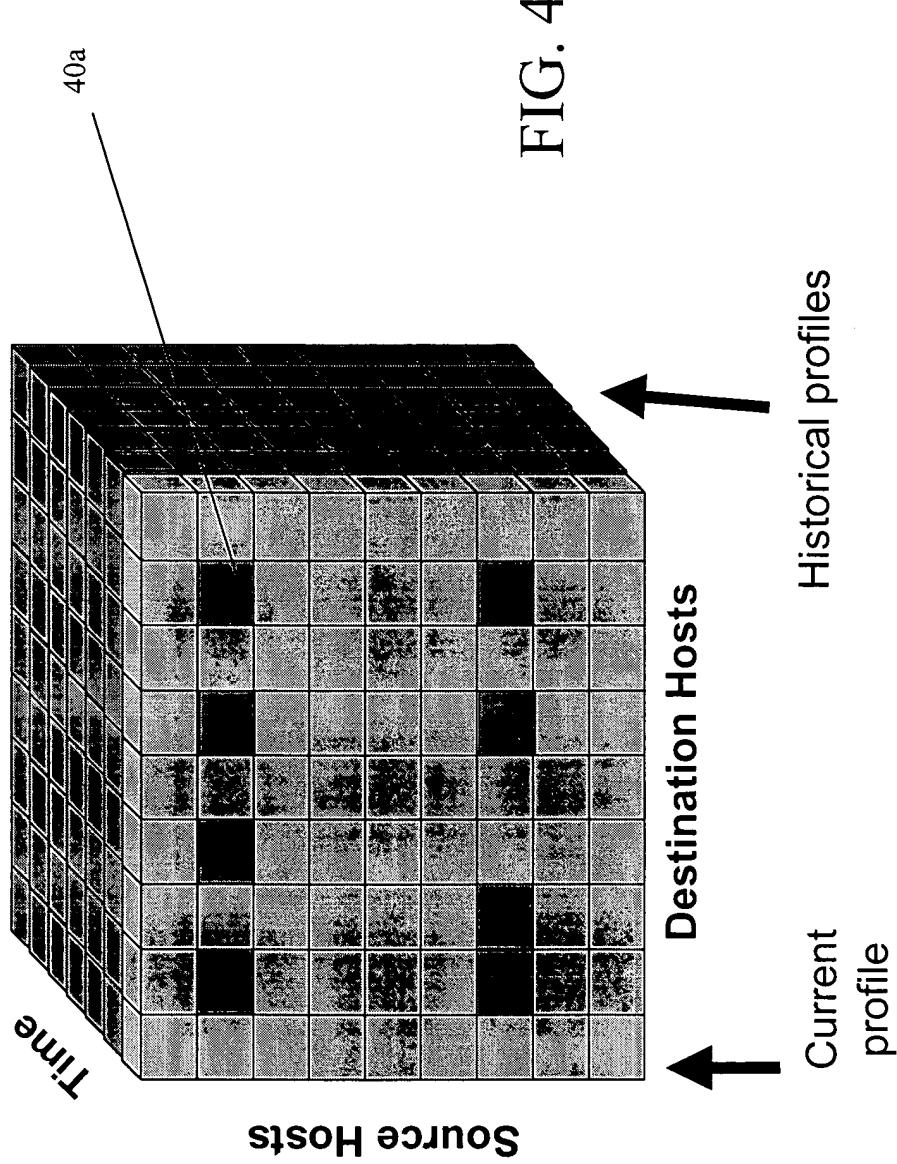


FIG. 3



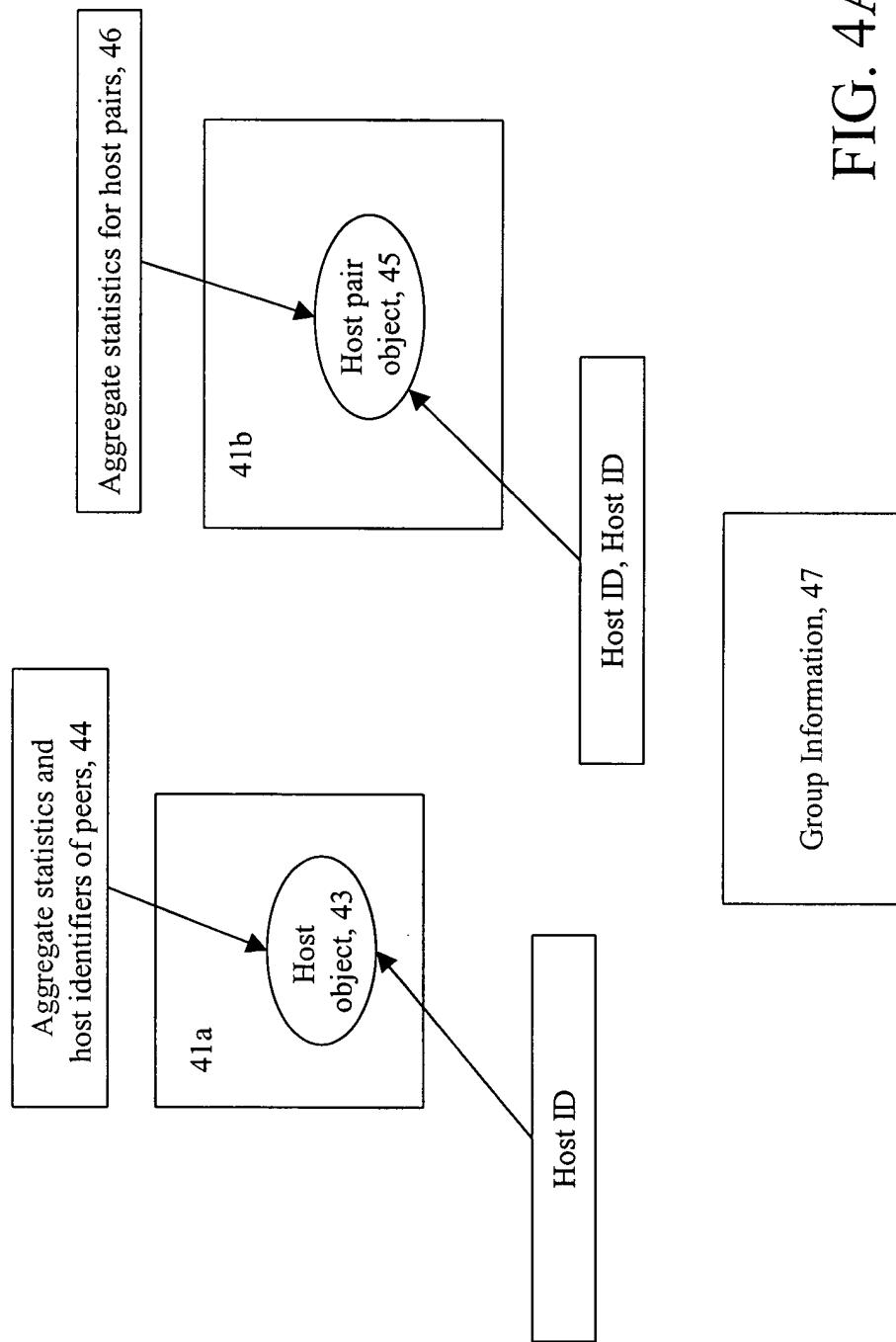
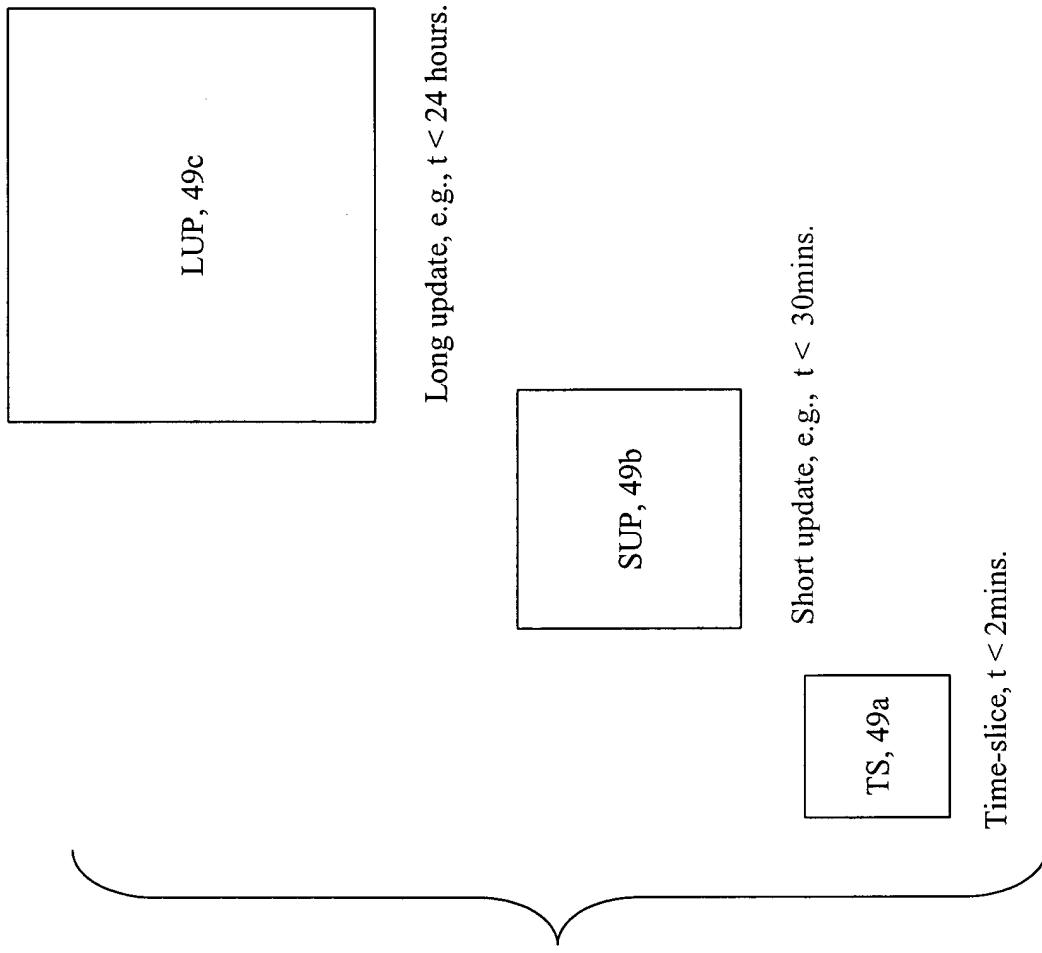


FIG. 4A

Time Slice	Fri	Fri	Thu	Wed	...	Sun	Sat	Fri
Services provided by A (Web Server) to B (Desktop)								
WWW (TCP:80)								
Bytes / sec	2k	3k	1k	...	2k	4k	3k	
Packets / sec	5	6	2		5	9	5	
Conn's. / hr	.3	.5	.3		.2	.3	.3	
SSH (TCP:22)								
Bytes / sec	1k	3k	4k	...	1k	2k	3k	
Packets / sec	2	6	9		2	5	6	
Conn's. / hr	.3	.5	.3		.3	.3	.5	
				...				
Services provided by B (Desktop) to A (Web Server)								
SSH (TCP:22)								
Bytes / sec	21k	0	0	...	0	0	0	
Packets / sec	10	0	0		0	0	0	
Conn's. / hr	1	0	0		0	0	0	

FIG. 5

FIG. 6



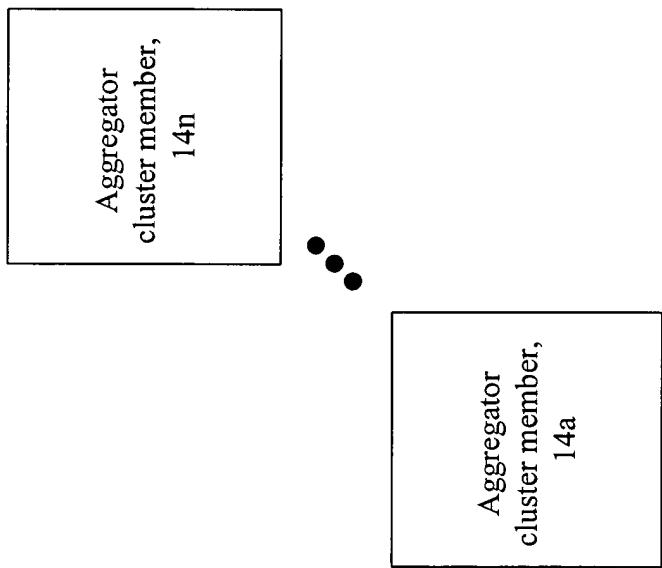
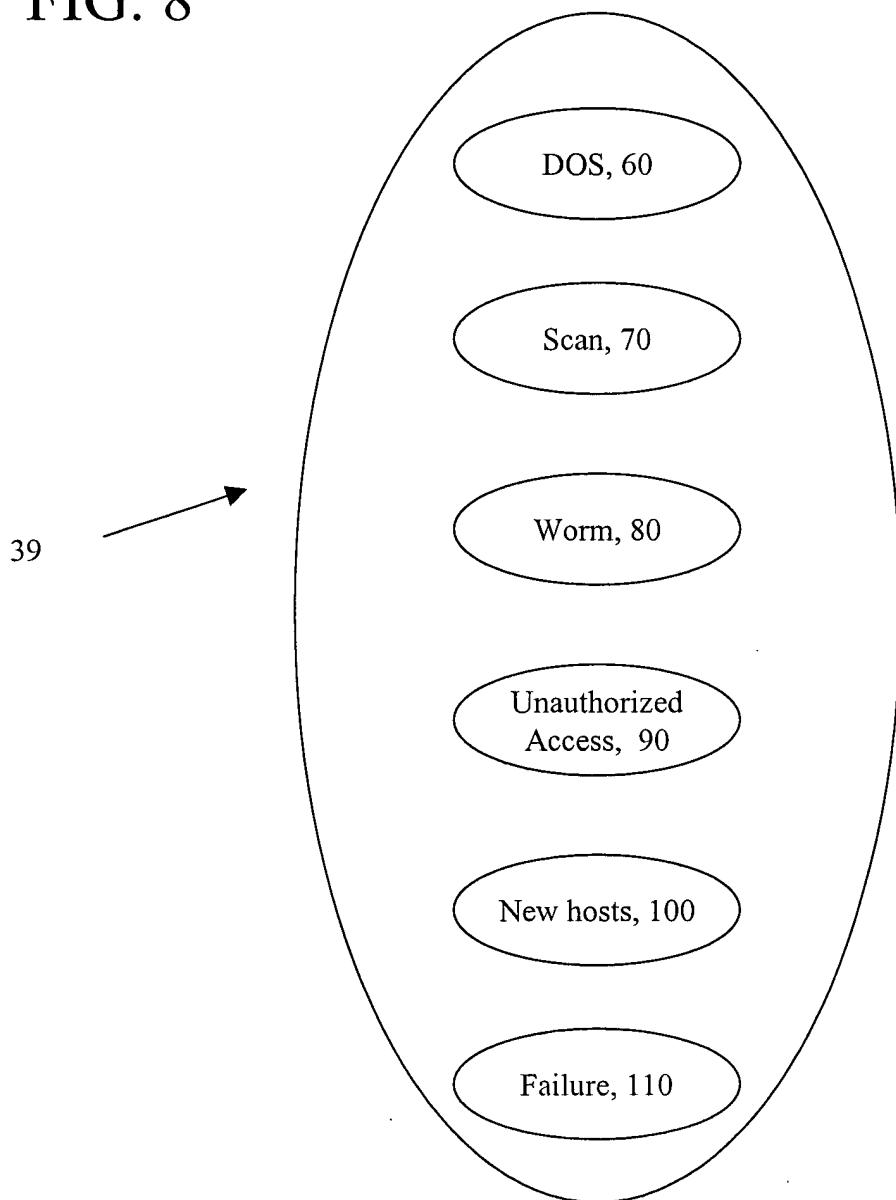


FIG. 7

FIG. 8



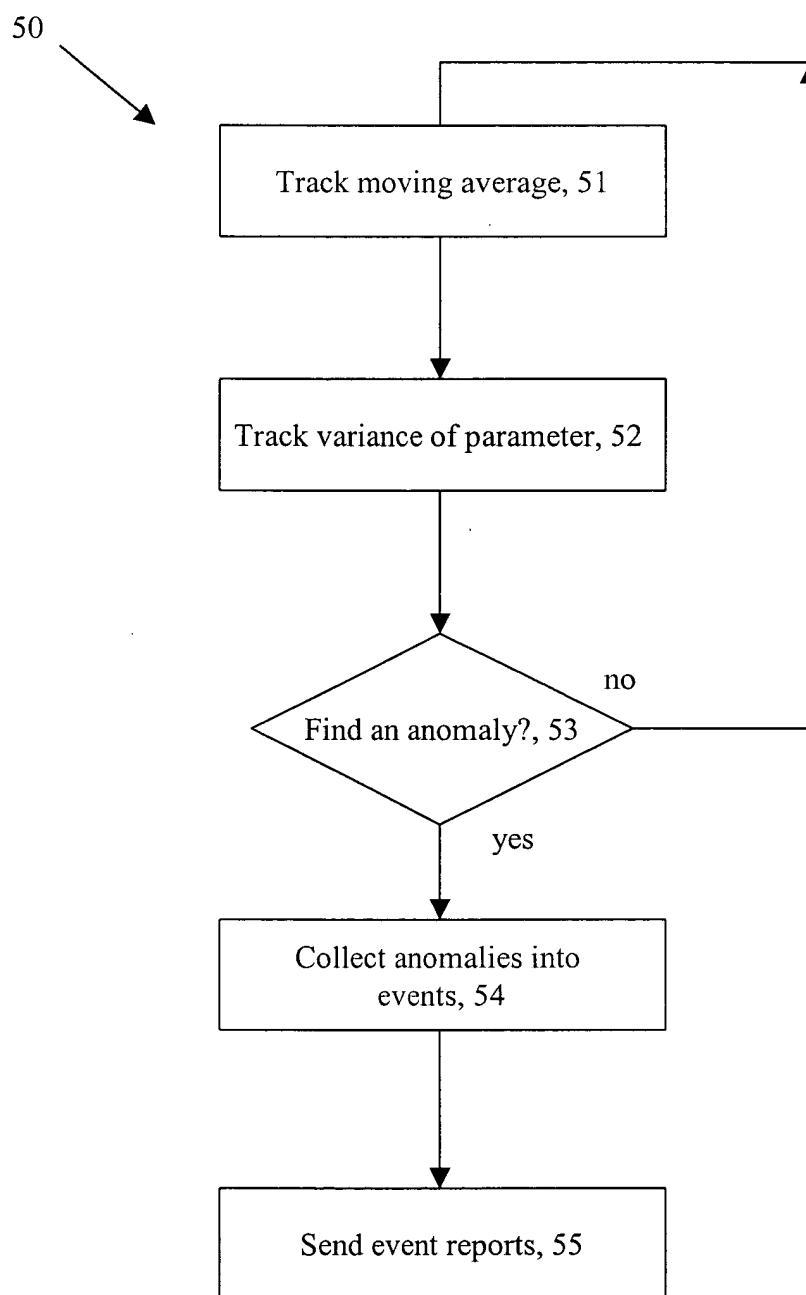


FIG. 9

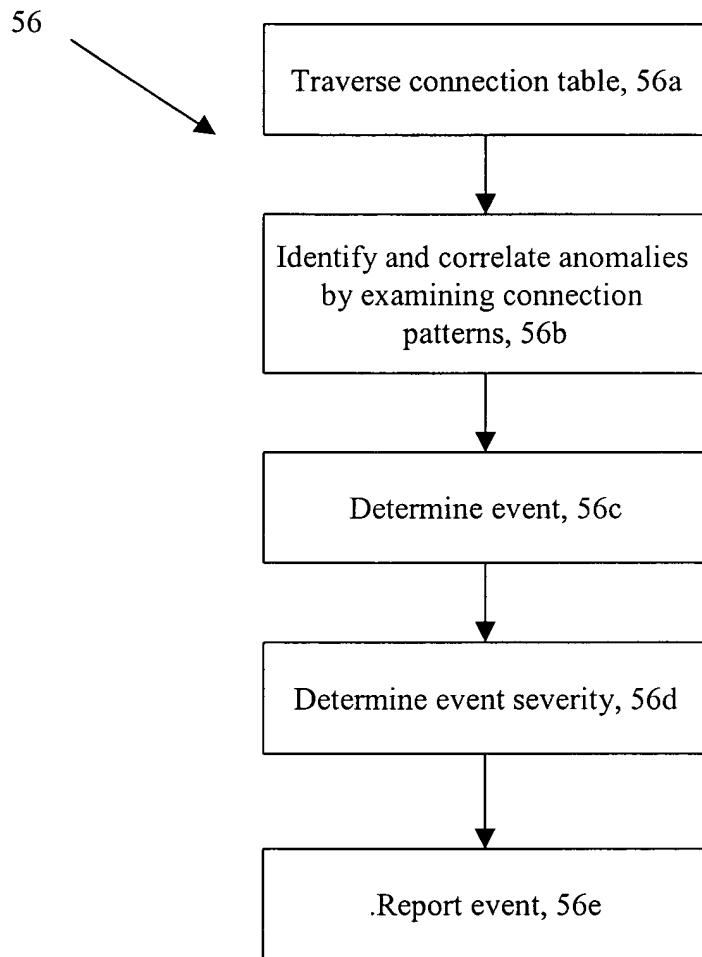


FIG. 10

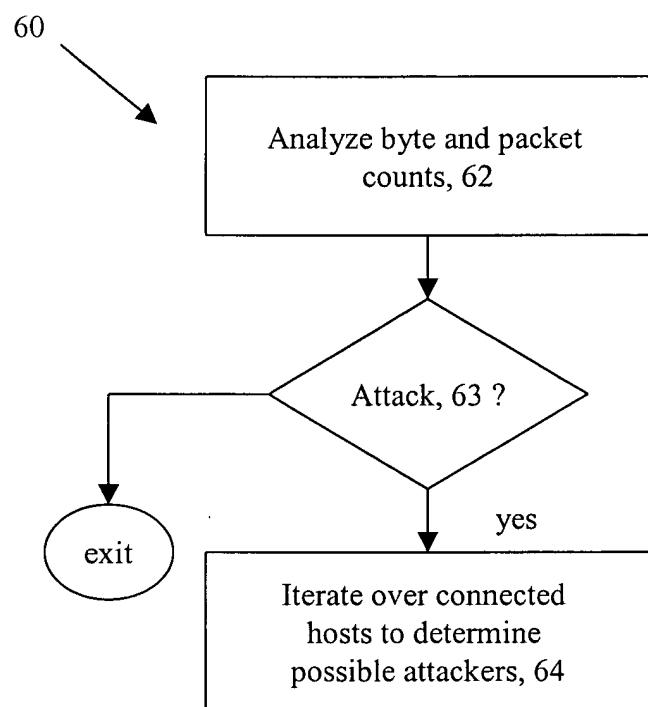


FIG. 11

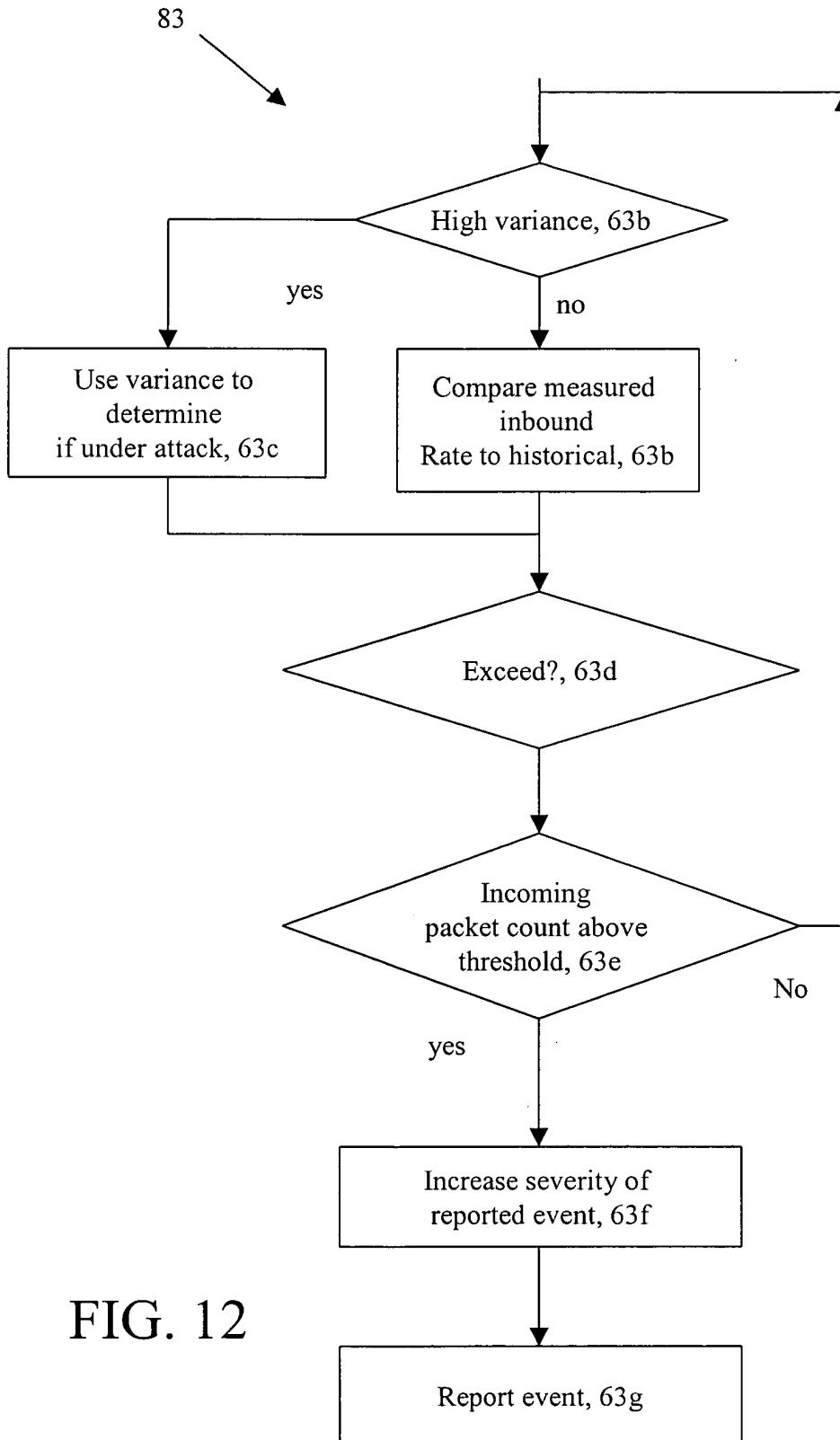


FIG. 12

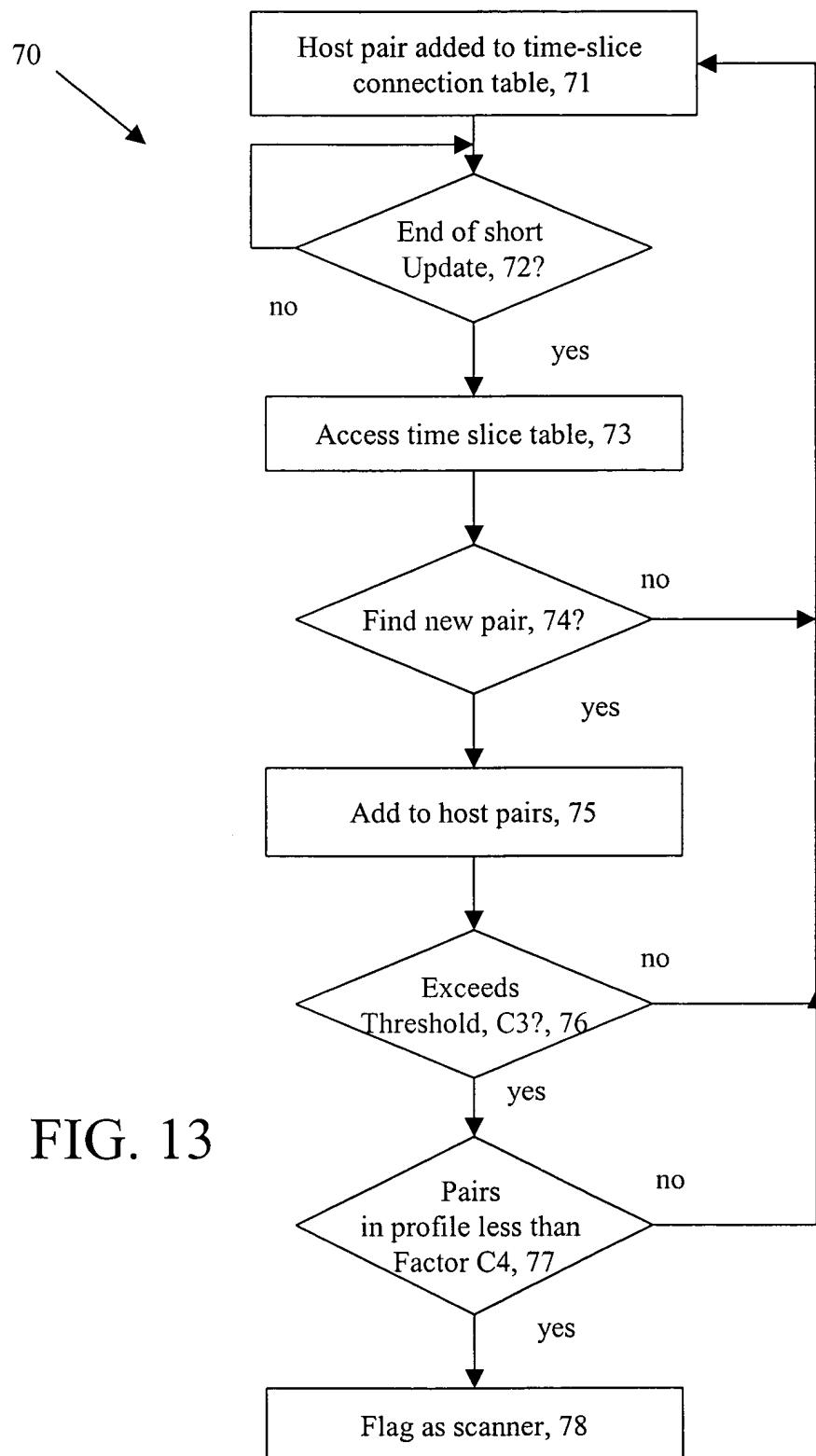


FIG. 13

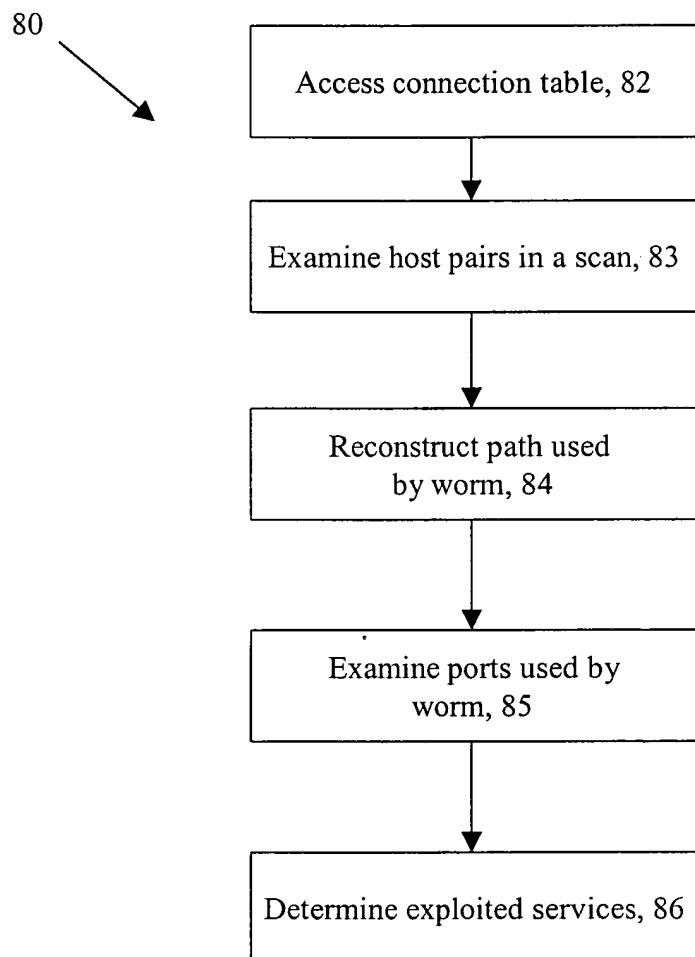


FIG. 14

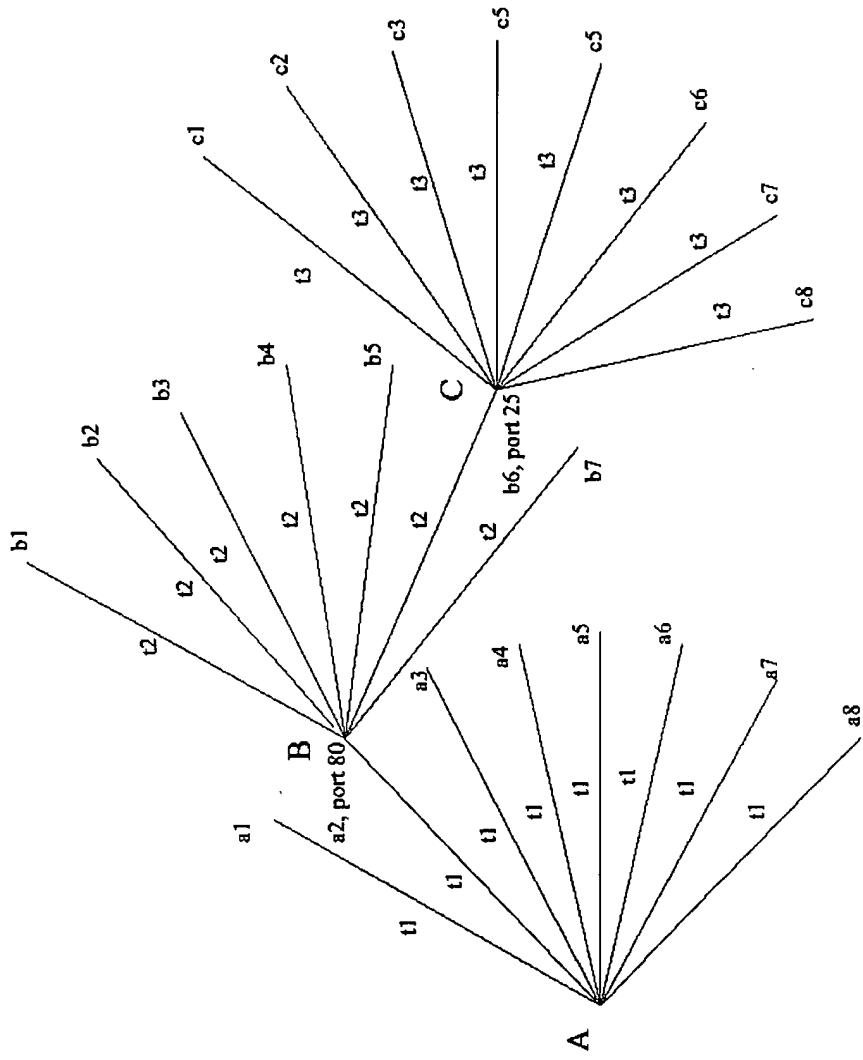


FIG. 15

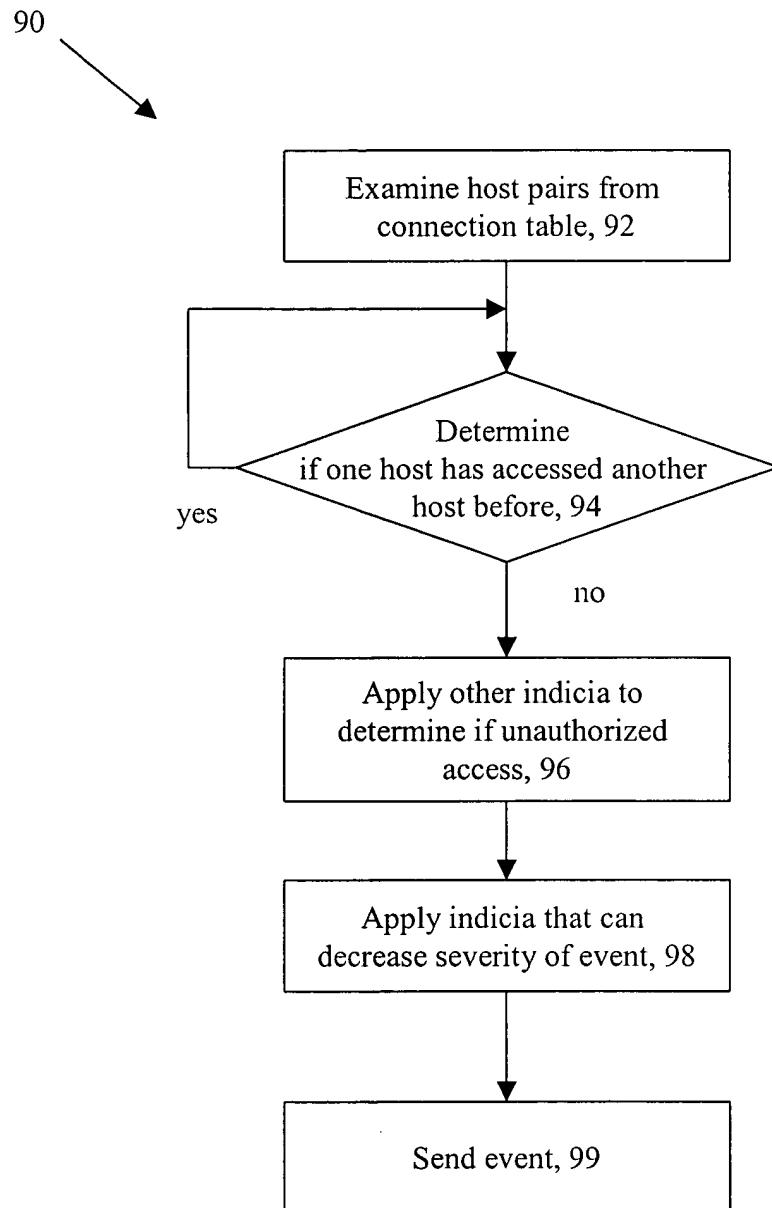


FIG. 16

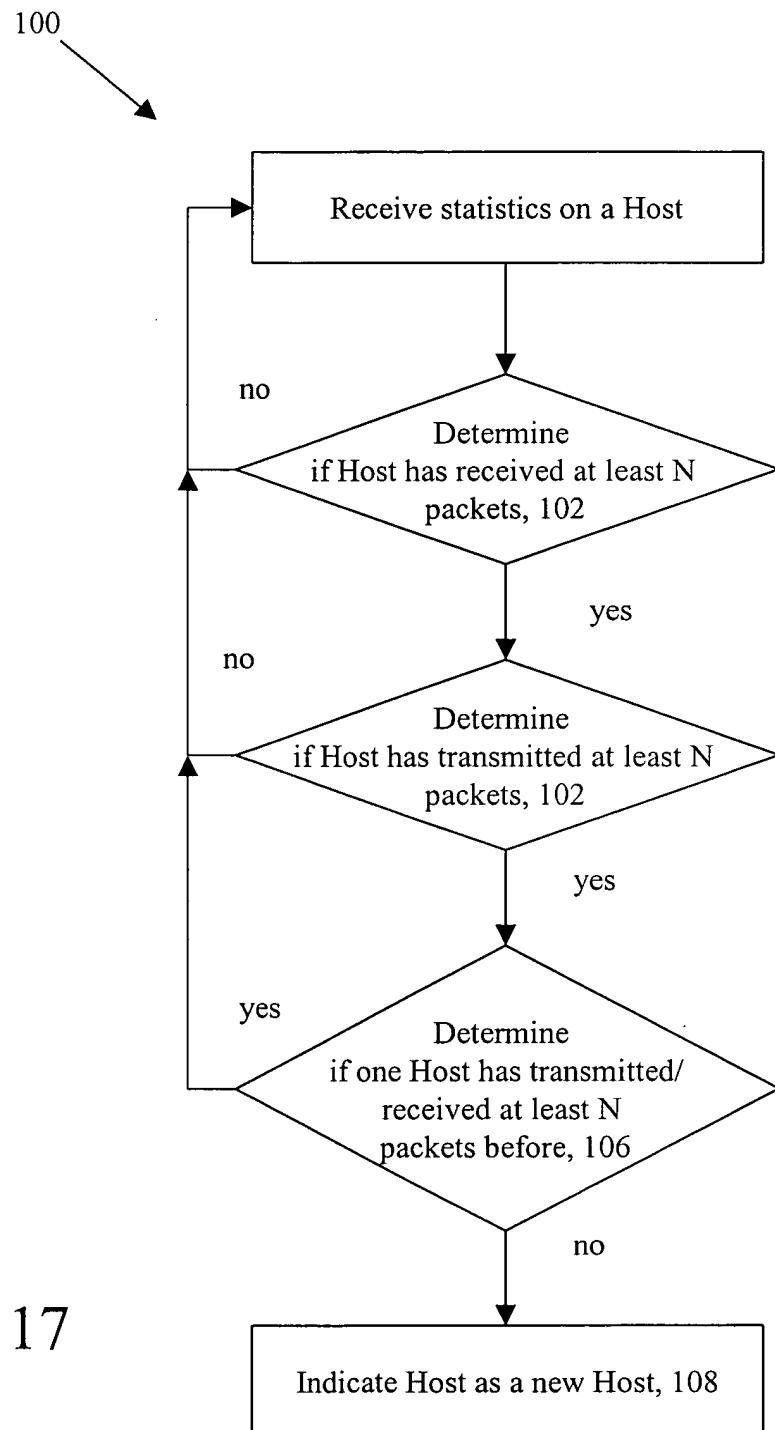


FIG. 17

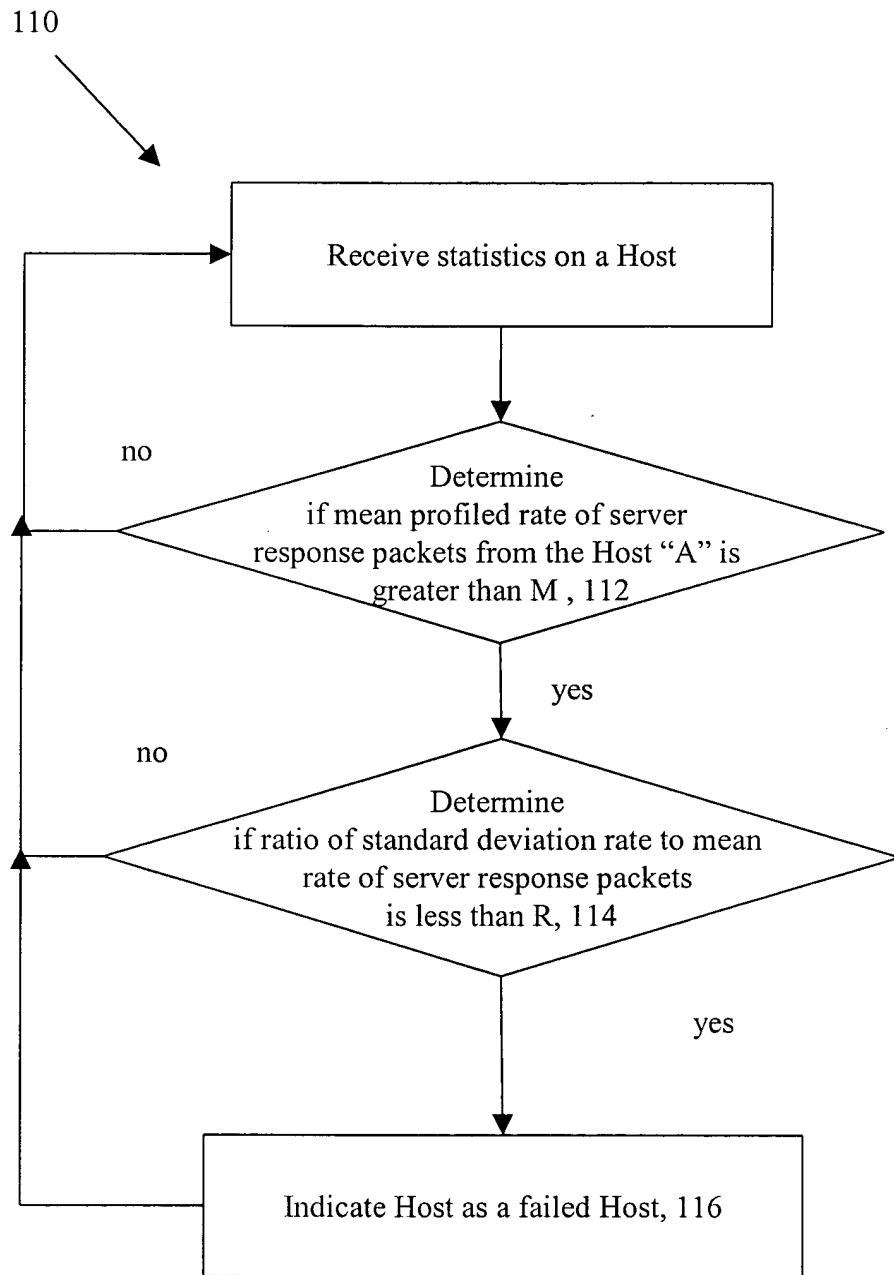


FIG. 18

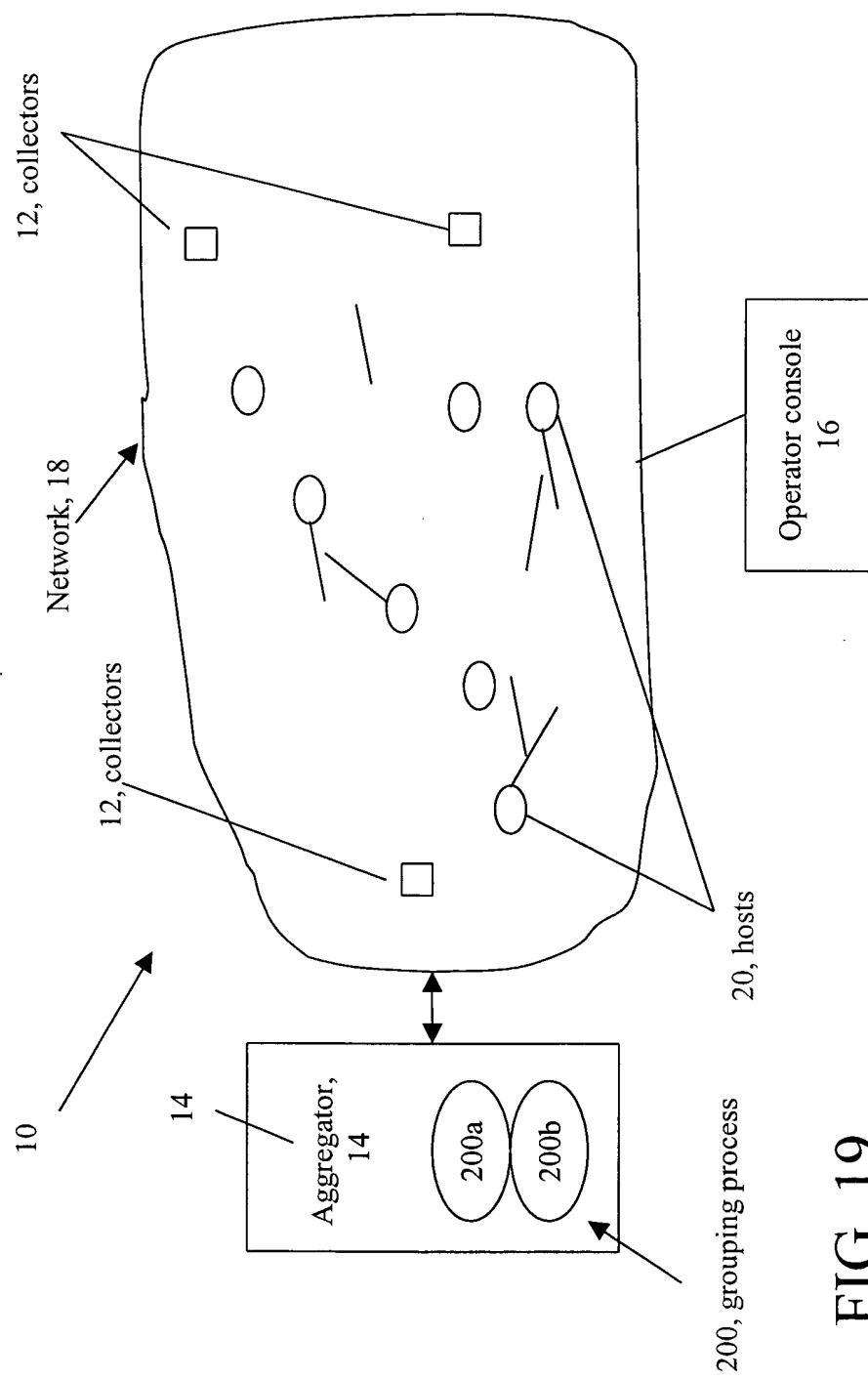


FIG. 19

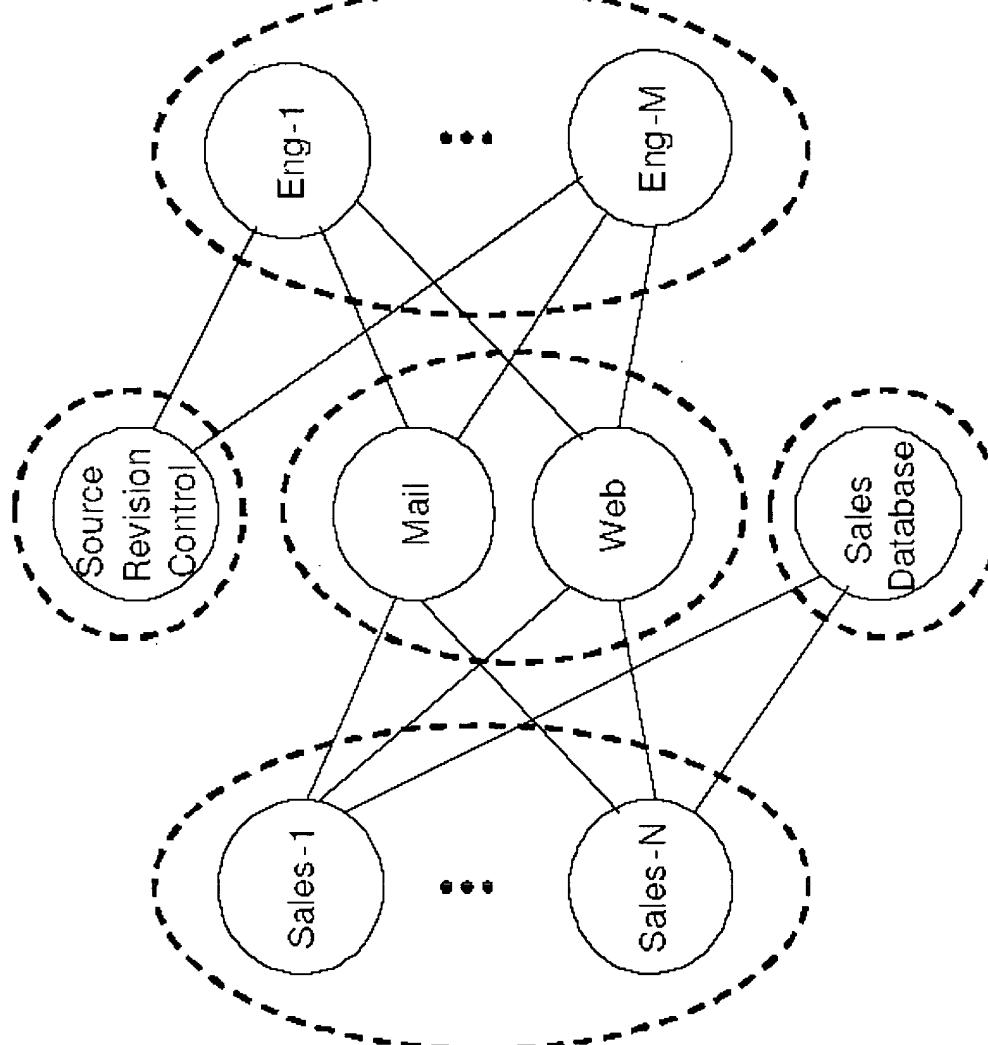


FIG. 20

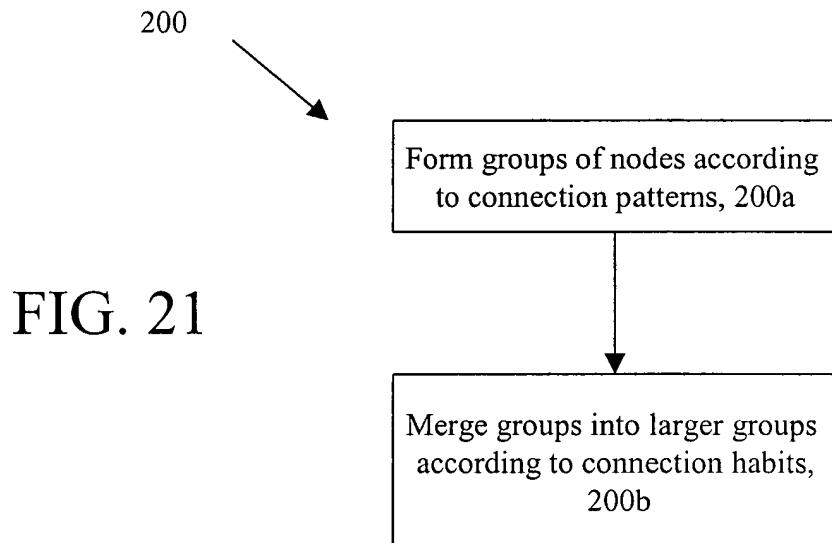


FIG. 21

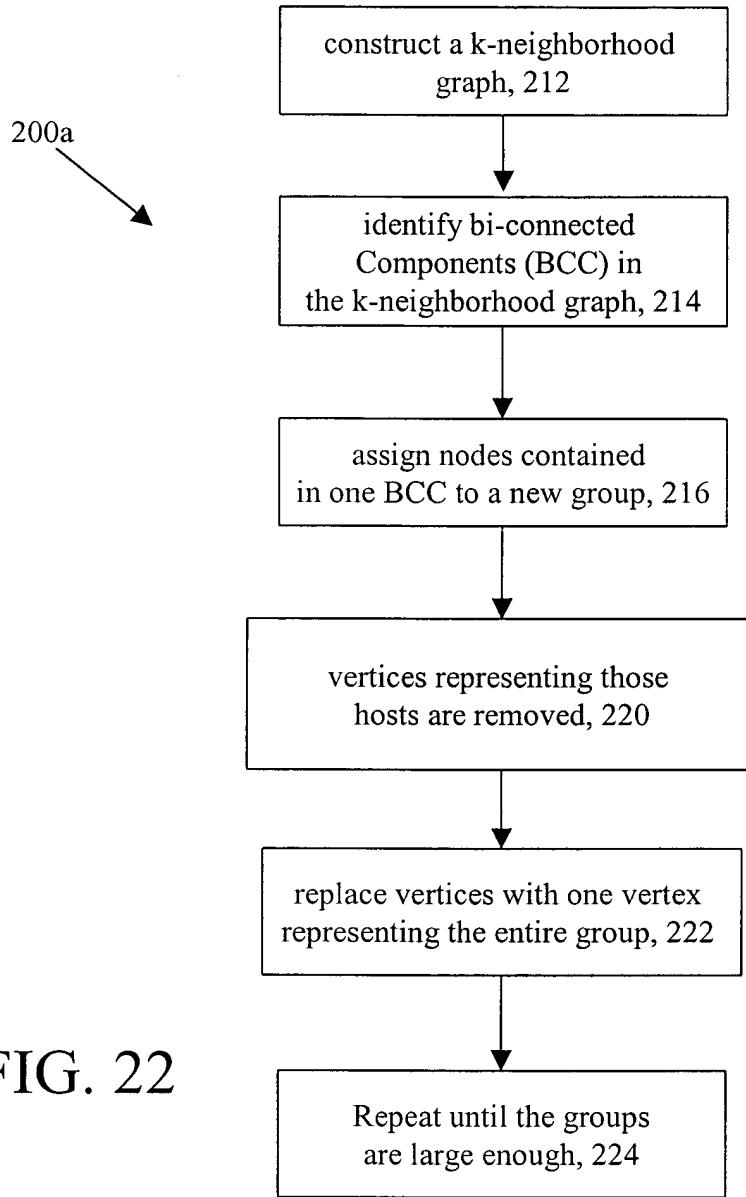


FIG. 22

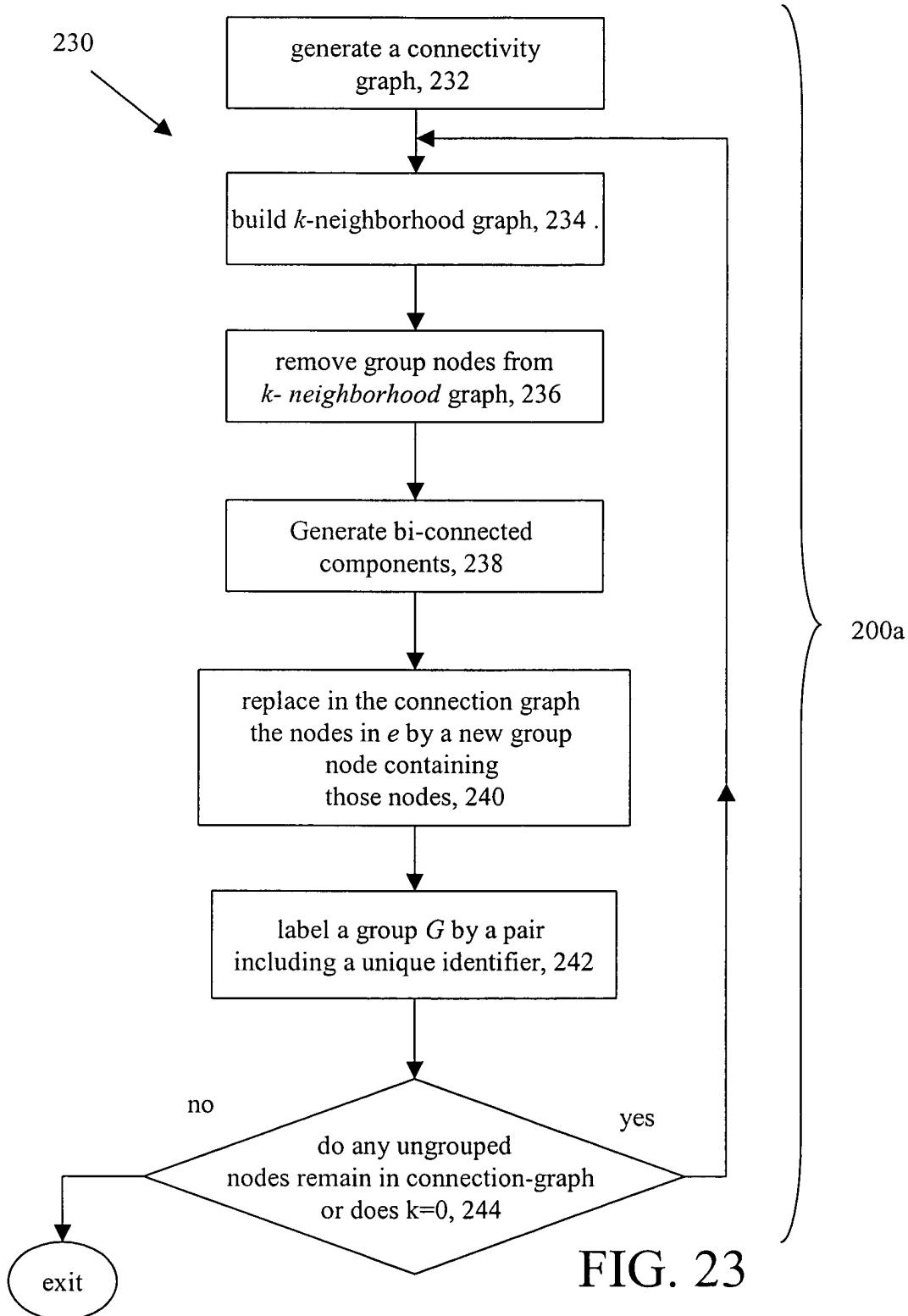
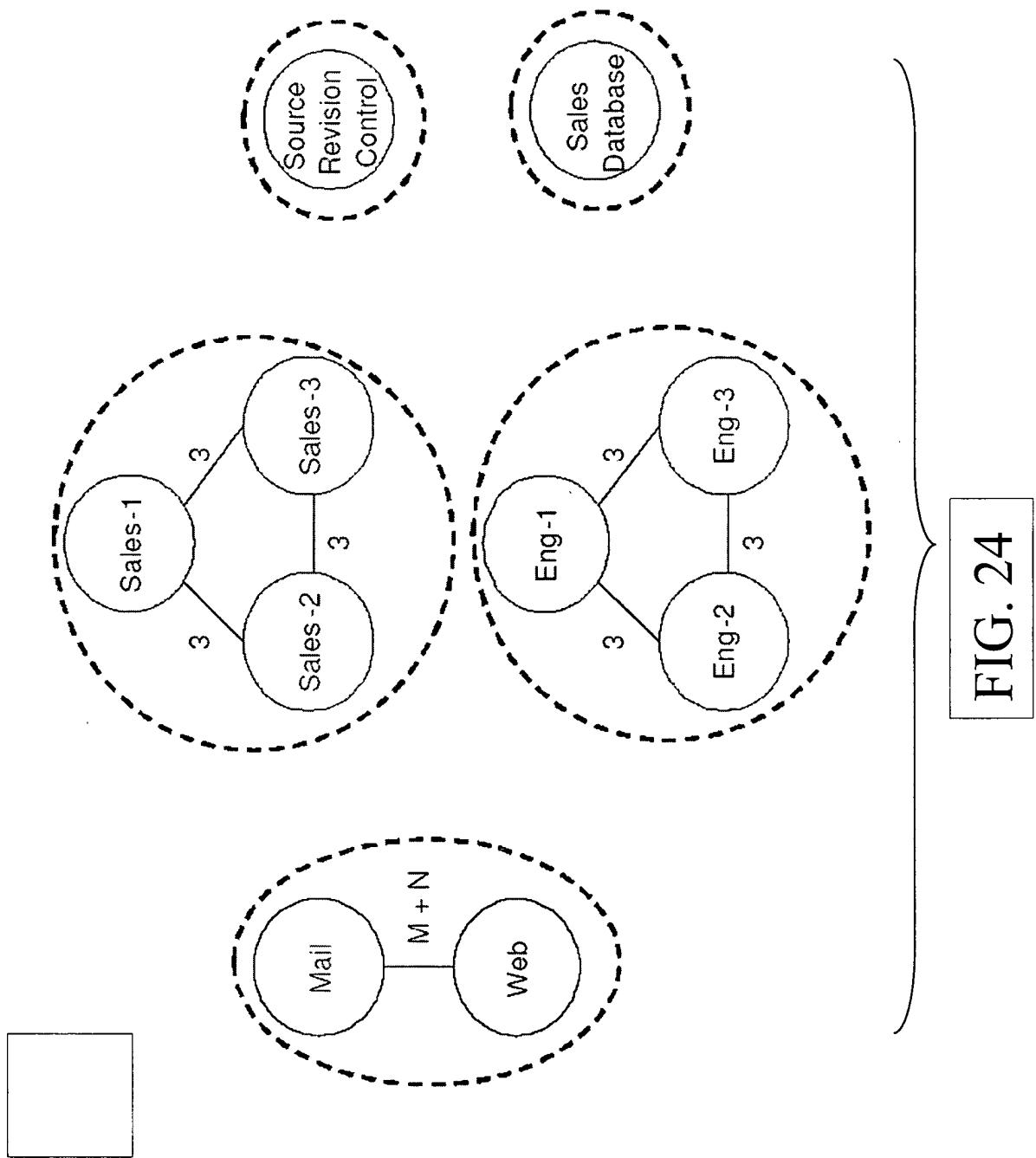


FIG. 23



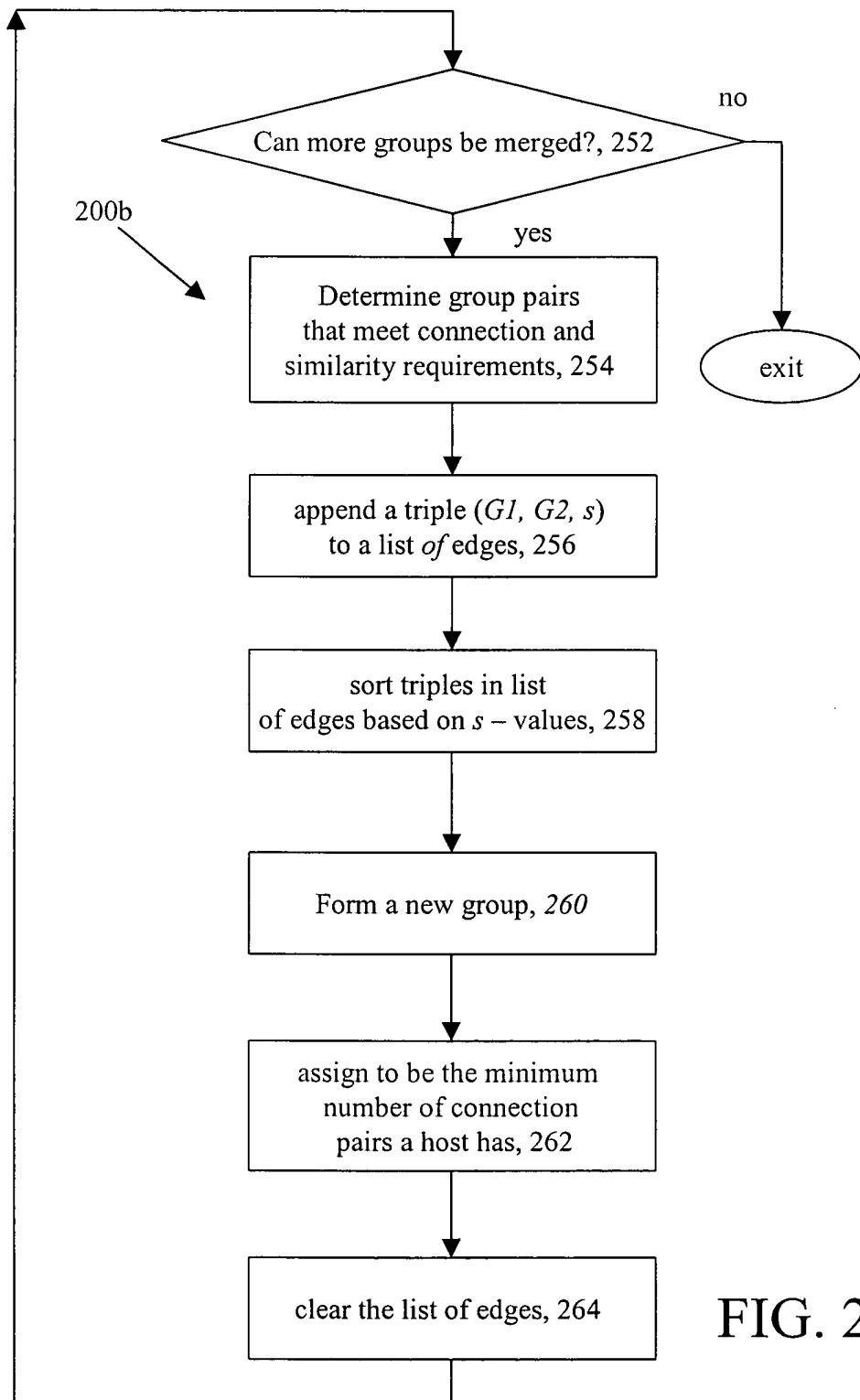


FIG. 25

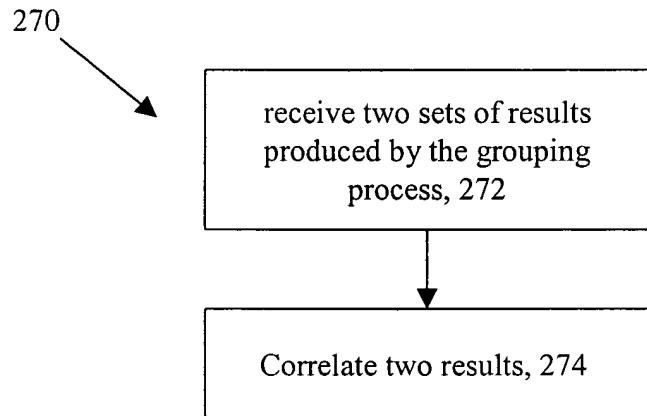


FIG. 26

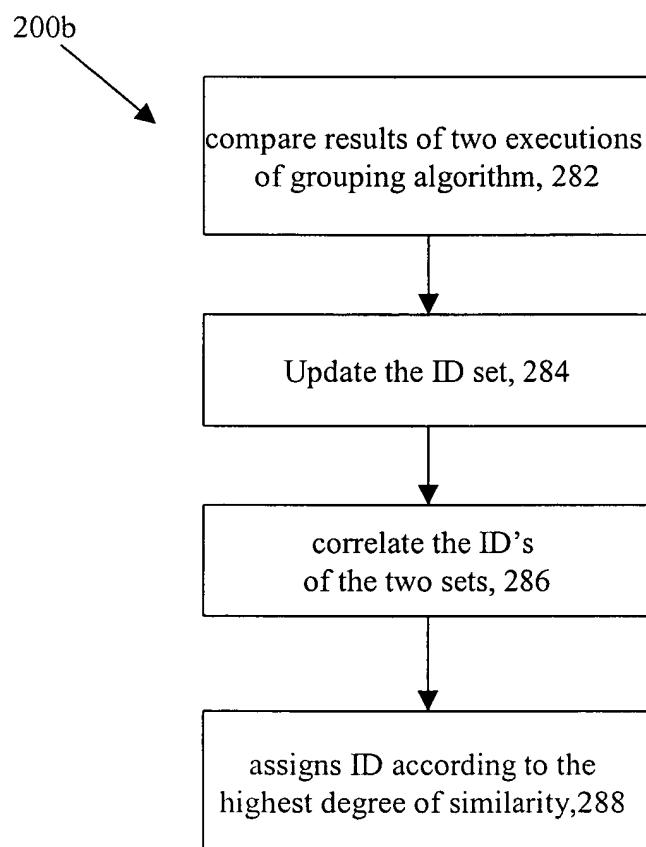


FIG. 27

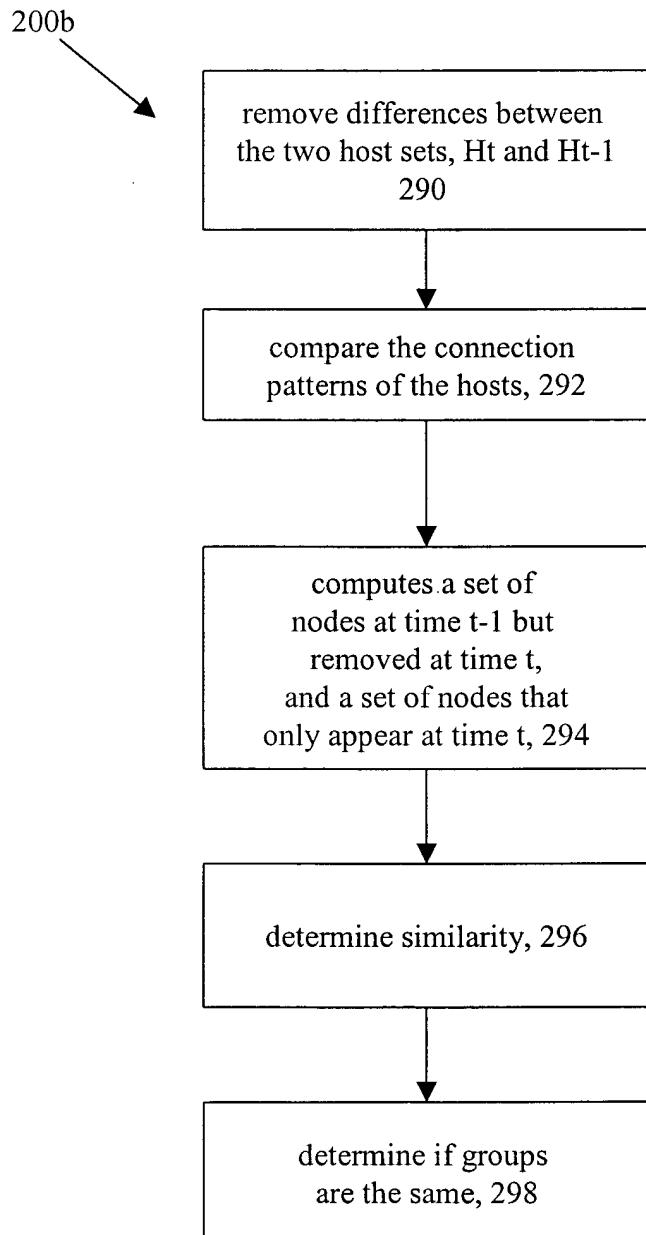


FIG. 28

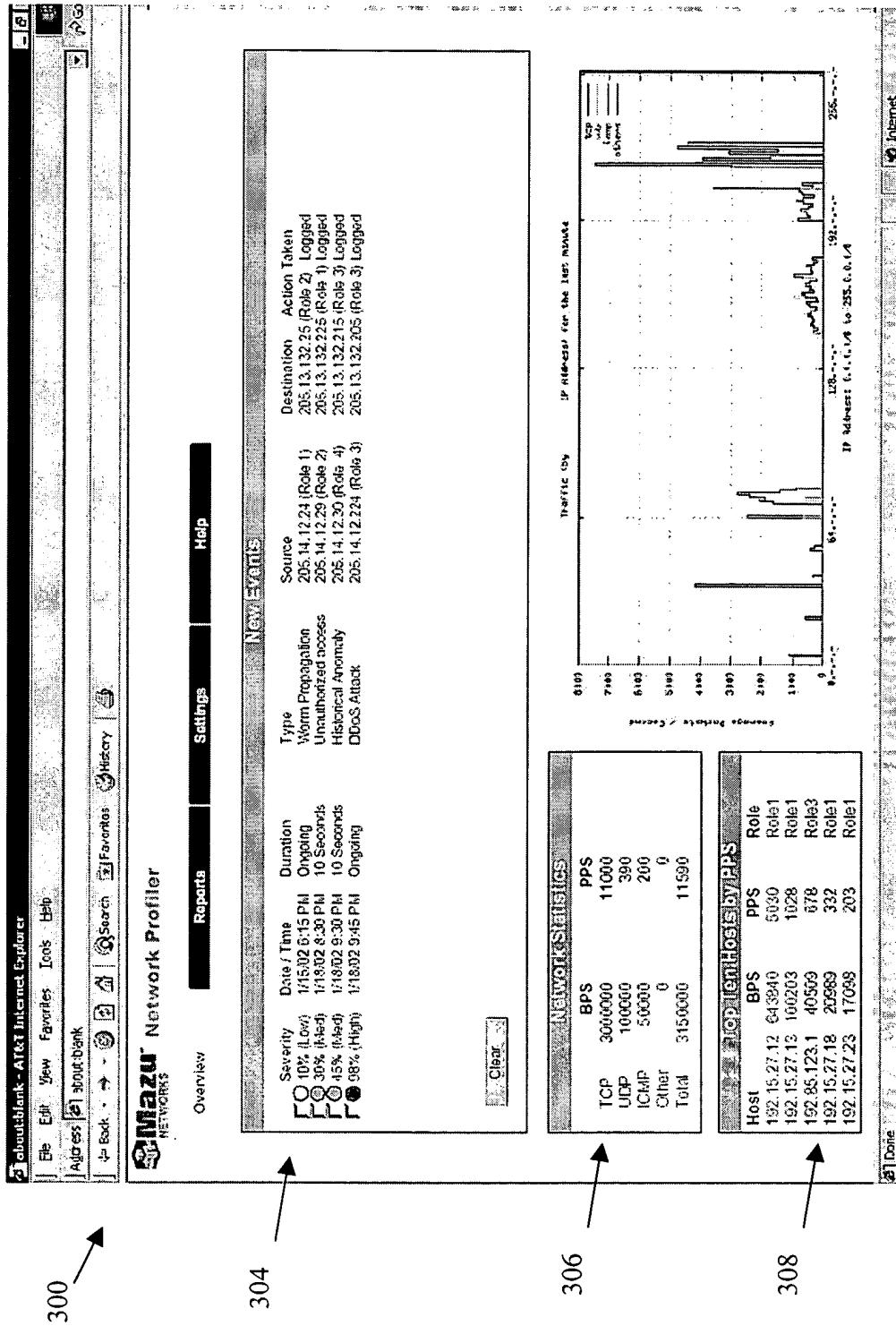


FIG. 29

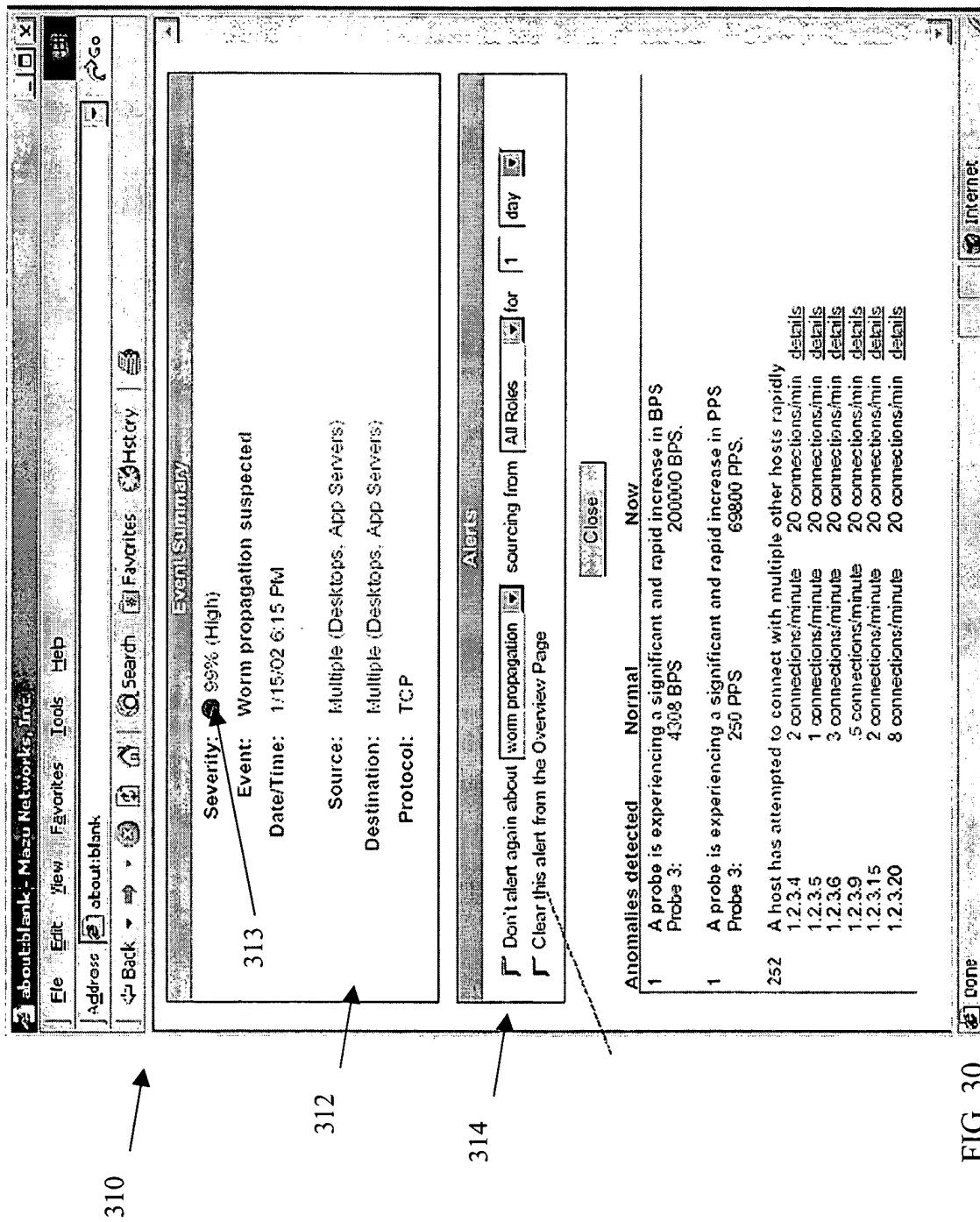


FIG. 30

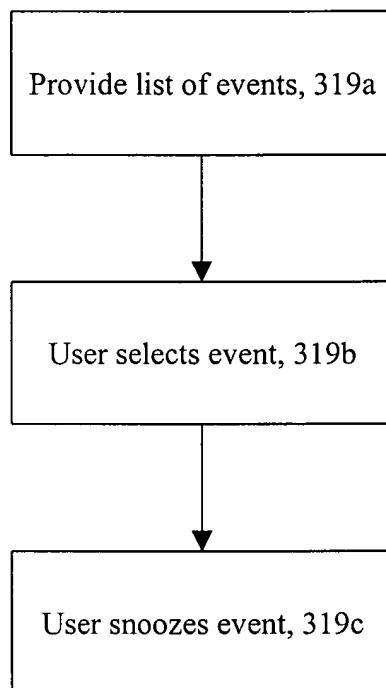


FIG. 31

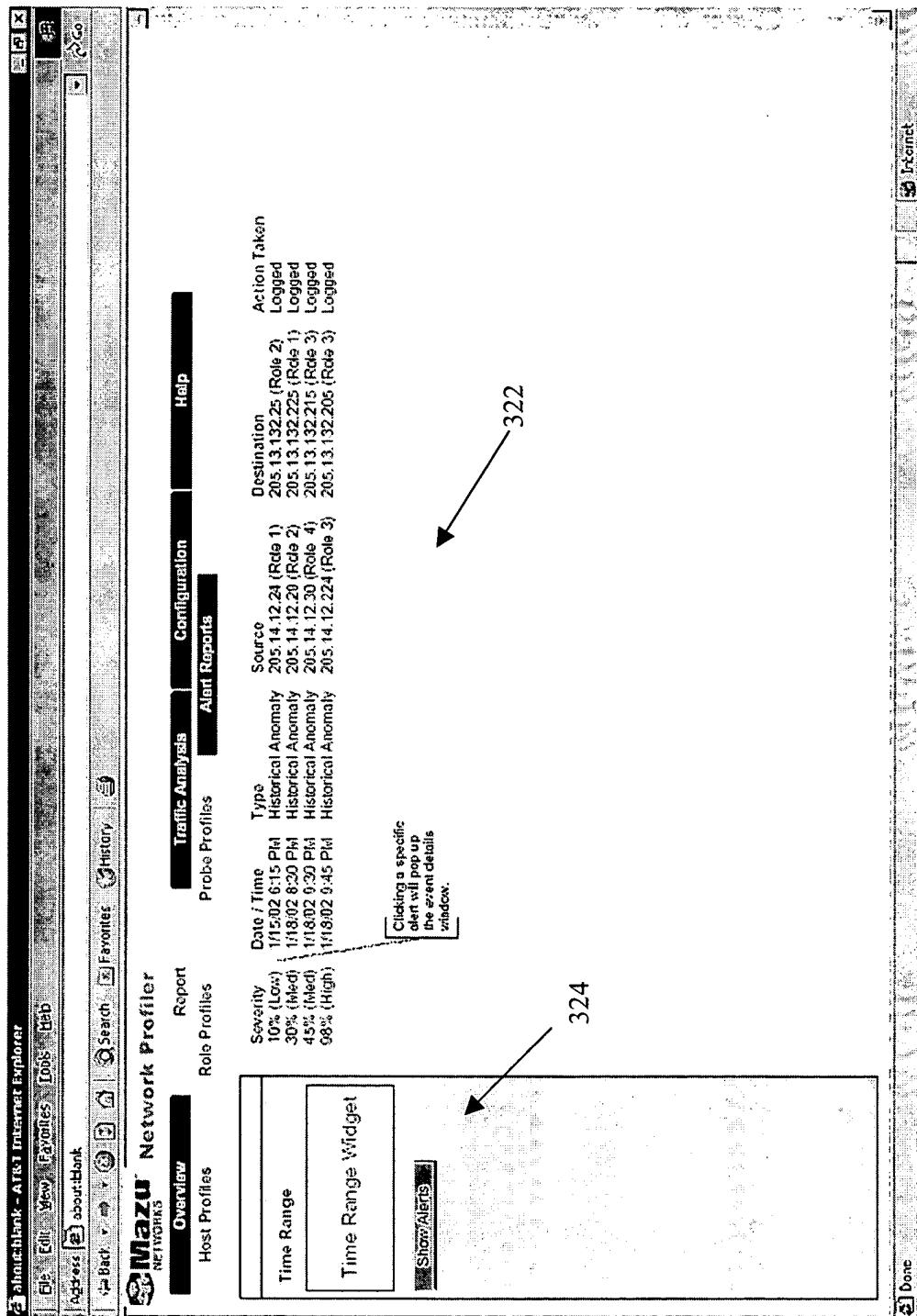


FIG. 32

about:blank - AT&T Internet Explorer

File Edit View Favorites Tools Help

Address [] about:blank

Mazu® Network Profiler

Overview Report Role Profiles Settings Help

Profile for: 26.231.34.5

Tuesdays - 10:00 AM to 11:50 AM

Tuesdays - 10:00 AM to 11:50 AM

Tuesdays - 8:00 AM to 9:50 AM

Tuesdays - 6:00 AM to 7:50 AM

Profile Time

Member of: Employee Desktops

334

Role	IP Address	Protocol	Port	State	Details
332a	26.231.0.0.16	TCP	80 (www)	X	X
			443 (https)	X	X
			25 (SMTP)	X	X
			SYN	X	X
			FIN	X	X
			UDP	X	X
			53 (dns)	X	X
			KMP	X	X
			20/9	X	X
			Proto X	X	X
			82	X	X
			Total	X	X

332

Role	IP Address	Protocol	Port	State	Details
All	26.231.34.1	PPS	In	0	X
	26.231.34.2		Out	500	X
	26.231.34.3		In	0	X
	26.231.34.4		Out	0	X
	26.231.34.5		In	500k	X
	26.231.34.6		Out	20k	X

Results

Search

Show Profile

Flow Statistics

Clicking on a profile shows the profile for that host.

Clicking on the details link picks up the a-to-b and b-to-a states for the peer.

Peer	Host	Protocol	Port	State	Details
1.2.3.4	26.231.34.5	TCP	80 (www)	X	X
1.2.3.5	26.231.34.5	TCP	443 (https)	X	X
1.2.3.6	26.231.34.5	TCP	25 (SMTP)	X	X
1.2.3.7	26.231.34.5	TCP	SYN	X	X
1.2.3.8	26.231.34.5	TCP	FIN	X	X
1.2.3.9	26.231.34.5	UDP	53 (dns)	X	X
1.2.3.10	26.231.34.5	UDP	KMP	X	X
1.2.3.11	26.231.34.5	UDP	20/9	X	X
1.2.3.12	26.231.34.5	UDP	Proto X	X	X
1.2.3.13	26.231.34.5	UDP	82	X	X

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337

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FIG. 33

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332

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FIG. 34

This figure displays a screenshot of the Mazu Network Profiler software interface. The main window shows a grid of connection statistics for various protocols and ports over different time intervals. Below the grid are two sections: 'Intra-role Statistics' and 'Inter-role Statistics'. Each section contains a table with specific host details.

Intra-role Statistics:

Role	Host	Protocol	Port	Source IP	Destination IP	Source Port	Destination Port	State
Employee Desktops	12.3.4	TCP	80 (www)	192.168.1.10	192.168.1.10	12345	80	Established
Employee Desktops	12.3.5	TCP	443 (https)	192.168.1.10	192.168.1.10	12345	443	Established
Employee Desktops	12.3.6	TCP	25 (SMTP)	192.168.1.10	192.168.1.10	12345	25	Established
Employee Desktops	12.3.7	TCP	SYN	192.168.1.10	192.168.1.10	12345	SYN	Established
Employee Desktops	Total	TCP						

Inter-role Statistics:

Role	Host	Protocol	Port	Source IP	Destination IP	Source Port	Destination Port	State
Mail Servers	12.3.4	TCP	25 (SMTP)	192.168.1.10	192.168.1.10	12345	25	Established
Mail Servers	12.3.5	TCP	25 (SMTP)	192.168.1.10	192.168.1.10	12345	25	Established
FTP Servers	12.3.6	TCP	25 (SMTP)	192.168.1.10	192.168.1.10	12345	25	Established
FTP Servers	12.3.7	TCP	25 (SMTP)	192.168.1.10	192.168.1.10	12345	25	Established

Annotations:

- Top Left:** Clicking on a peer role shows the profile for that role.
- Top Right:** Clicking on the details link pops up the a->b and b->a stats for the peer role.
- Bottom Left:** Clicking on a peer role shows the profile for that role.
- Bottom Right:** Clicking on the details link pops up the a->b and b->a stats for the peer role.

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FIG. 34

340

346 347 344

about:blank - A&T Internet Explorer

File Edit View Favorites Tools Help

Address [E] about:blank

Back Forward Stop Home Search Favorites History

Smazu Network Profiler

NETTOPHERS

Overview Report Role Profiles Host Profiles

Probe?

Profile for: Probe 7

Profile Time: Tuesdays - 10:00 AM to 11:59 AM
Tuesdays - 10:00 AM to 11:59 AM
Tuesdays - 8:00 AM to 9:59 AM
Tuesdays - 6:00 AM to 7:59 AM

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
TCP	X	X	X	X	X	X	X
80 (http)	X	X	X	X	X	X	X
443 (https)	X	X	X	X	X	X	X
25 (S-HTTP)	X	X	X	X	X	X	X
SYN	X	X	X	X	X	X	X
FIN	X	X	X	X	X	X	X
UDP	X	X	X	X	X	X	X
53 (dns)	X	X	X	X	X	X	X
ICMP	X	X	X	X	X	X	X
209	X	X	X	X	X	X	X
Proto X	X	X	X	X	X	X	X
82	X	X	X	X	X	X	X
Total	X	X	X	X	X	X	X

Done

354

352

FIG. 35

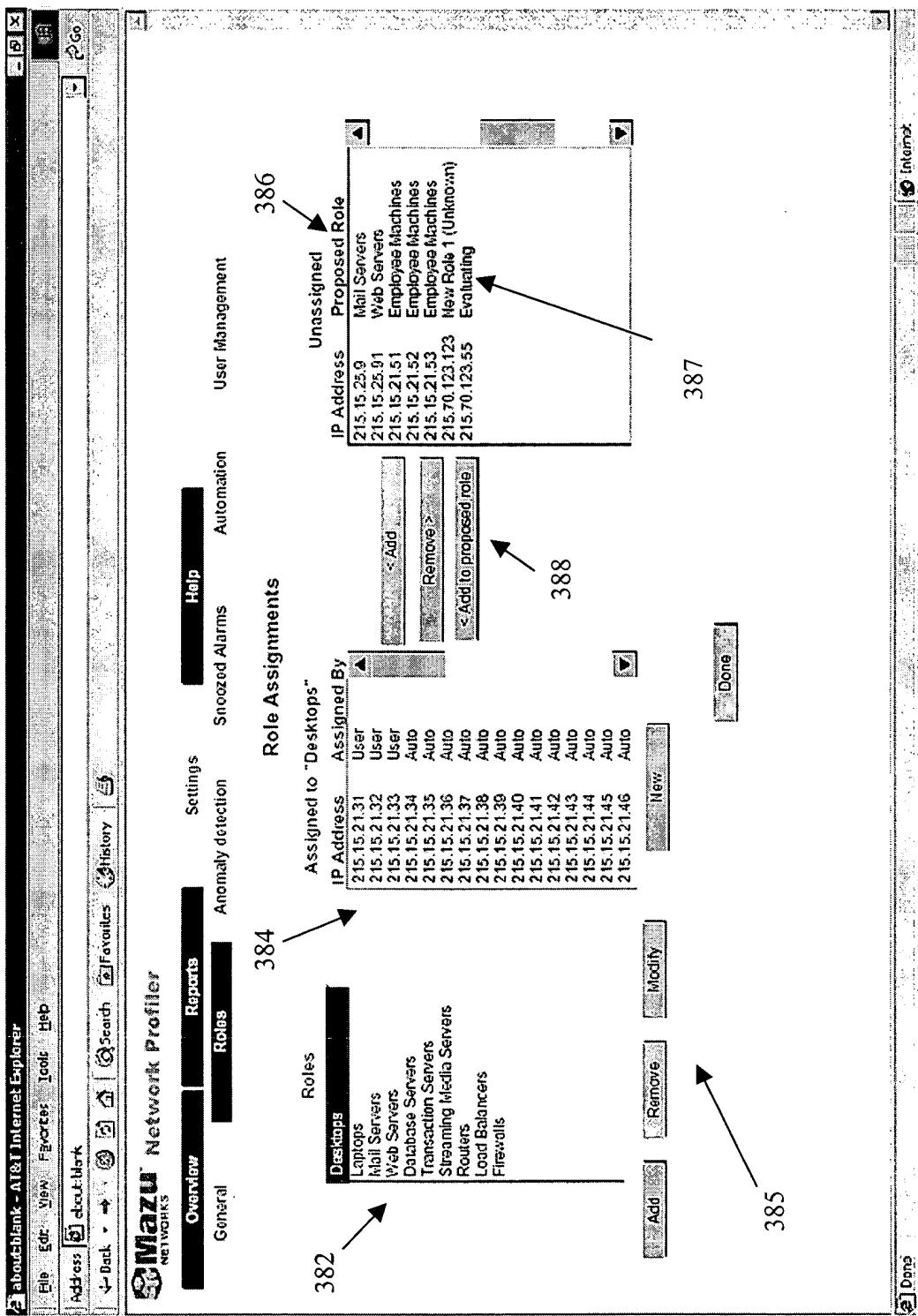


FIG. 36

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